_Hh_

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/812,769	03/20/2001	Michael Scheetz	10006053-1	8879

7590   07/08/2005

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

EXAMINER
ALI, SYED J

ART UNIT	PAPER NUMBER
2195	

DATE MAILED: 07/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

Office Action Summary	Application No.	Applicant(s)
	09/812,769	SCHEETZ ET AL.
	Examiner	Art Unit
	Syed J. Ali	2195

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *01 June 2005*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,6-16 and 19* is/are pending in the application.

   4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,6-16 and 19* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a)☐ All   b)☐ Some * c)☐ None of:

   1.☐ Certified copies of the priority documents have been received.

   2.☐ Certified copies of the priority documents have been received in Application No. _____.

   3.☐ Copies of the certified copies of the priority documents have been received in this National Stage

      application from the International Bureau (PCT Rule 17.2(a)).

   * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
   Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____ .

DETAILED ACTION

1.   A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection.   Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114.   Applicant's submission filed on May 2, 2005 has been entered.   Claims 1, 6-16,

and 19 are presented for examination.

2.   The text of those sections of Title 35, U.S. code not included in this office action can be

found in a prior office action.

Claim Rejections - 35 USC § 112

3.   **Claim 11 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for**

failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention.

4.   The following term lacks antecedent basis:

    a.   In lines 1-2 of claim 11, "the plurality of management processes".

Claim Rejections - 35 USC § 103

5.   **Claims 1, 6-16, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable**

over Moore et al. (USPN 6,282,581) (hereinafter Moore) in view of "Java Remote Method

Invocation Specification" (hereinafter "Java RMI").

6.   As per claim 1, Moore teaches the invention as claimed, including a method of error

recovery of a bound remote method invocation (RMI) interface object, the method comprising:

binding an interface object of a parent process with an RMI process (col. 8 lines 21-30);

and

starting a monitoring agent associated with the interface object (col. 18 lines 3-10), the

monitoring agent comprising a thread to perform the steps of:

determining if the interface object is bound with the RMI process (col. 18 lines

11-20), wherein if the interface object is not bound with an active RMI process, an error

occurs (col. 18 lines 19-22; col. 21 lines 11-17), the determining step including:

obtaining a bound uniform resource locator (URL) list from the RMI

process (col. 18 lines 36-55; col. 19 lines 52-59); and

determining whether the interface object's name is in the bound URL list

of the RMI process (col. 18 lines 56-62; col. 19 lines 52-59).

7.   Java RMI teaches the invention as claimed, including rebinding the interface object with

an active RMI process when the monitoring agent determines that its interface object is not

bound with an active RMI process, thereby recovering from the error (§§ 2.7, 4.3, 6.1, A.4).

8.   It would have been obvious to one of ordinary skill in the art to combine Moore and Java RMI since Moore specifies that each compatible protocol has its own unique API that provides the specific details for implementation (col. 7 line 66 - col. 8 line 5). As Java RMI is one of the supported protocols, the documentation specifying details of Java Remote Method Invocation is the ideal source for the implementation details. Java RMI flushes out many of the general requirements set forth by Moore, including the arglist being a list of uniform resource locators (§§ 2.6.4, 3.4, 4.3), and the use of threading to achieve various objectives (§ 3.2). Also, while Moore generates error notifications when a process becomes unbound (col. 21 lines 11-17), there is no discussion of how to work around such an error. A well-known feature of Java is the ability to throw and handle exceptions, and Java RMI provides exception handling for unbound RMI processes by rebinding the process (§§ 6.1, A.4).

9.   As per claim 6, Moore teaches the invention as claimed, including the method of claim 1, comprising:

        binding a second interface object of a second parent process with an RMI process (col. 8 lines 21-30); and

        calling a second monitoring agent associated with the second interface object (col. 18 lines 3-10), the second monitoring agent comprising a second thread to perform the steps of:

                monitoring the status of RMI processes (col. 18 lines 36-62).

10.   Java RMI teaches the invention as claimed, including rebinding the second interface object with an active RMI process when the second monitoring agent determines that the second interface object is not bound with an active RMI process (§§ 2.7, 4.3, 6.1, A.4).

11.   As per claim 7, Moore teaches the invention as claimed, including the method of claim 1,

wherein the step of binding the interface object comprises binding one of an RMI daemon, a

distributed task facility daemon, a log manager daemon, or a domain manager daemon, with an

active RMI daemon (col. 7 line 50 - col. 8 line 35).

12.   As per claim 8, Moore teaches the invention as claimed, including the method of claim 1,

comprising terminating the thread of the monitoring agent when the parent process is terminated

(col. 28 lines 9-17).

13.   As per claim 9, Moore teaches the invention as claimed, including a network system,

comprising:

        a plurality of remote nodes, at least one of the remote nodes running a remote method

invocation (RMI) process (col. 7 lines 15-30); and

        a management server for managing the remote nodes, the management server including at

least one processor for running an RMI process (col. 7 lines 28-38) and at least one management

process (col. 7 lines 40-49), each at least one management process being associated with a

monitoring agent comprising a thread to perform the steps of claim 1 (col. 18 lines 3-62).

14.   As per claim 10, Moore teaches the invention as claimed, including the network system

of claim 9, wherein the at least one management process comprises a plurality of management

processes (col. 28 lines 9-17).

15.   As per claim 11, Moore teaches the invention as claimed, including the network system

of claim 9, wherein the plurality of management processes comprise a distributed task facility

process (col. 17 lines 15-30), a domain manager process (col. 16 lines 49-67), and a log manager

process (col. 17 lines 15-30).

16.   As per claim 12, Moore teaches the invention as claimed, including the network system

of claim 9, wherein each of the remote nodes runs a service control manager agent process for

performing server management tasks (col. 17 lines 15-30).

17.   As per claim 13, Moore teaches the invention as claimed, including the network system

of claim 9, wherein the management server comprises a secondary storage device, the secondary

storage device comprising a data repository, a depot, and a web server (col. 17 lines 36-38).

18.   As per claim 14, Moore teaches the invention as claimed, including the network system

of claim 9, wherein the plurality of remote nodes are arranged into at least one node group, the

network system comprising a service control manager for managing the at least one node group

(col. 17 lines 15-30).

19.   As per claims 15, 16, and 19, Moore teaches the invention as claimed, including a

method of error recovery of a bound remote method invocation (RMI) interface object, the

method comprising:

b)   performing an initialization call to a monitoring agent associated with the

interface object, the monitoring agent comprising a thread, the thread performing the

steps of claims 1, 7, and 8, respectively (col. 7 line 50 - col. 8 line 35; col. 18 lines 3-62;

col. 28 lines 9-17).

20.   Java RMI teaches the invention as claimed, including:

a)   performing a rebind call to an RMI process to provide a network address and an

interface object of a parent process to the RMI process (§§ 2.7, 4.3, 6.1, A.4); and

Response to Arguments

21.   **Applicant's arguments with respect to claims 1, 6-16, and 19 have been considered**

but are moot in view of the new grounds of rejection.

Conclusion

22.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Syed J Ali whose telephone number is (571) 272-3769. The

examiner can normally be reached on Mon-Fri 8-5:30, 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai T An can be reached on (571) 272-3756. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Syed Ali

July 1, 2005

MENG-AL T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100